

STANLEY®

SRP 6570 HYDROSTATIC REVERSIBLE PLATE



SRP 6570

USER MANUAL Safety, Operation and Maintenance



© 2015 Stanley Black & Decker, Inc.
New Britain, CT 06053
U.S.A.
75890 2/2016 Ver 3

DECLARATION OF CONFORMITY

DECLARATION OF CONFORMITY
 ÜBEREINSTIMMUNGS-ERKLÄRUNG
 DECLARATION DE CONFORMITE CEE
 DECLARACION DE CONFORMIDAD
 DICHIARAZIONE DI CONFORMITA



I, the undersigned:
 Ich, der Unterzeichnende:
 Je soussigné:
 El abajo firmante:
 Io sottoscritto:

Weisbeck, Andy

Surname and First names/Familiennname und Vornamen/Nom et prénom/Nombre y apellido/Cognome e nome

hereby declare that the equipment specified hereunder:, bestätige hiermit, daß erklaren Produkt genannten Werk oder Gerät:
 déclare que l'équipement visé ci-dessous: Por la presente declaro que el equipo se especifica a continuación:
 Dichiaro che le apparecchiature specificate di seguito:

- 1. Category: **Compaction Reversible Plate**
 Kategorie:
 Catégorie:
 Categoria:
 Categoria:
- 2. Make/Marke/Marque/Marca/Marca **Stanley**
- 3. Type/Typ/Type/Tipo/Tipo: **SRP 65701D**
- 4. Serial number of equipment:
 Seriennummer des Geräts:
 Numéro de série de l'équipement:
 Numero de serie del equipo:
 Matricola dell'attrezzatura:

All
- 5. Mass/Masse/Masse/Masa/Massa 491 kg / 1082.47 lb

Has been manufactured in conformity with, Wurde hergestellt in Übereinstimmung mit, Est fabriqué conformément
 Ha sido fabricado de acuerdo con, E' stata costruita in conformità con

Directive/Standards Richtlinie/Standards Directives/Normes Directriz/Los Normas Direttiva/Norme	No. Nr Numéro No n.	Approved body Prüfung durch Organisme agréé Aprobado Collaudato
Machinery Directive	2006/42/EG 2006/42/EC 2006/42/CE 2000/14/EG 2000/14/EC 2000/14/CE 2005/88EG 2005/88/EC 2005/88/CE 2004/108/EG 2004/108/EC 2004/108/CE	Self Self Self Self Self Self Self Self Self Self Self Self
Measurements: Messungen Mesures Mediciones Misurazioni	SRP 6570 Hatz 1D81 10.1 kW 107 dB 109 dB*	

- 6. Special Provisions: Harmonized standards: **EN 500-1; EN500-4**
 Spezielle Bestimmungen:
 Dispositions particulières:
 Provisiones especiales:
 Disposizioni speciali:
- 7. Measurements: **Measured Sound Power Level**
 Messungen **Guaranteed Sound Power Level***
 Mesures Annex VIII of 2000/14/EC
 Mediciones
 Misurazioni
- 8. Representative in the Union: **Patrick Vervier, Stanley Dubuis 17-19, rue Jules Berthonneau-BP 3406 41034 Blois Cedex, France.**
 Vertreter in der Union/Représentant dans l'union/Representante en la Union/Rappresentante presso l'Unione

Done at/Ort/Fait à/Dado en/Fatto a Stanley Hydraulic Tools, Milwaukie, Oregon USA Date/Datum/le/Fecha/Data 18-01-2013

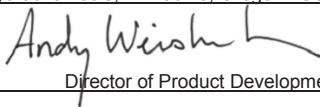
Signature/Unterschrift/Signature/Firma/Firma 
 Position/Position/Fonction/Cargo/Posizione Director of Product Development

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IMPORTANT

To fill out a Product Warranty Validation form, and for information on your warranty, visit Stanleyhydraulics.com and select the Company tab, Warranty.
(NOTE: The warranty Validation record must be submitted to validate the warranty).

SERVICING: This manual contains safety, operation, and routine maintenance instructions. Stanley Hydraulic Tools recommends that servicing this machine, other than routine maintenance, must be performed by an authorized and certified dealer. Please read the following warning.

⚠ WARNING

SERIOUS INJURY OR DEATH COULD RESULT FROM THE IMPROPER REPAIR OR SERVICE OF THIS TOOL.

REPAIRS AND / OR SERVICE TO THIS TOOL MUST ONLY BE DONE BY AN AUTHORIZED AND CERTIFIED DEALER.

For the nearest authorized and certified dealer, call Stanley Hydraulic Tools at the number listed on the back of this manual and ask for a Customer Service Representative.

SAFETY SYMBOLS

Safety symbols and signal words, as shown below, are used to emphasize all operator, maintenance and repair actions which, if not strictly followed, could result in a life-threatening situation, bodily injury or damage to equipment.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

This safety alert and signal word indicate an imminently hazardous situation which, if not avoided, will result in death or serious injury.

This safety alert and signal word indicate a potentially hazardous situation which, if not avoided, could result in death or serious injury.

This safety alert and signal word indicate a potentially hazardous situation which, if not avoided, could result in death or serious injury.

This signal word indicates a potentially hazardous situation which, if not avoided, may result in property damage.

This signal word indicates a situation which, if not avoided, will result in damage to the equipment.

This signal word indicates a situation which, if not avoided, may result in damage to the equipment.

Always observe safety symbols. They are included for your safety and for the protection of the tool.

LOCAL SAFETY REGULATIONS

Enter any local safety regulations here. Keep these instructions in an area accessible to the operator and maintenance personnel.

FOREWORD



These instructions include:

- Safety regulations
- Operating instructions
- Maintenance instructions

These instructions have been prepared for operation on the construction site and for the maintenance engineer.

These instructions are intended to simplify operation of the machine and to avoid malfunctions through improper operation.

Observing the maintenance instructions will increase the reliability and service life of the machine when used on the construction site and reduce repair costs and downtimes.

Always keep these instructions at the place of use of the machine.

Only operate the machine as instructed and follow these instructions.

Do not fail to comply with all County and State safety provisions, as well as the rules for safety and health.

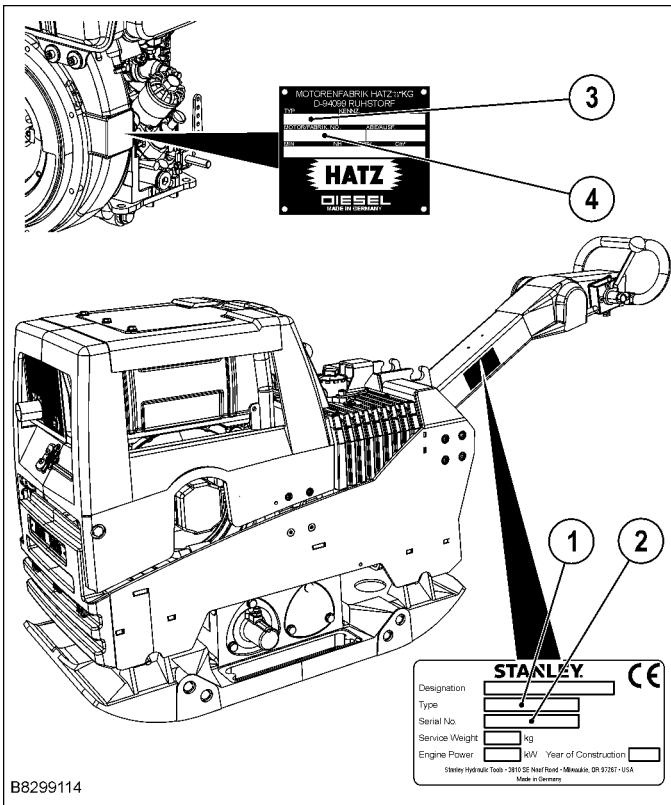
Also observe the corresponding rules and regulations valid in your country.

Stanley is not liable for the function of the machine when used in an improper manner and for other than the intended purpose.

Operating errors, improper maintenance and the use of incorrect operating materials are not covered by the warranty.

The above information does not extend the warranty and liability conditions of business of Stanley.

We reserve us the right to make changes due to technical development without announcement.



PLEASE ENTER (DATA ON MACHINE TYPE PLATE)

1. MACH.-TYPE: _____

2. MACH.-NO.: _____

3. ENGINE-TYPE: _____

4. ENGINE-NO.: _____

Stanley Hydraulic Tools
3810 SE Naef Rd
Milwaukie, OR 97267
Ph: 503-659-5660
Fax: 503-652-1780
www.stanleyhydraulics.com

SAFETY

This Stanley machine has been built according to the state of the art in compliance with the pertinent rules. Nevertheless, these machines can still constitute a hazard to persons and property if:

- not used for the intended purpose,
- not operated by suitably qualified and instructed personnel,
- modified or converted in an improper manner,
- the pertinent safety regulations are not observed

For this reason, any person entrusted with the operation, maintenance or repair of the machine is obliged to read and follow the operating instructions and particularly to observe the safety regulations. If necessary, it must be confirmed by the signature of the company using the machine.

Furthermore, the following must be made known and observed:

- pertinent regulations for the prevention of accidents,
- generally recognized safety rules,
- country-specific regulations

Normal use

The machine is suitable for all compaction jobs in civil works and road construction. All ground materials such as sand, gravel, sludge, crushed stone, asphalt and composite sett paving can be compacted.

Improper use

The machine can constitute hazards if not used by instructed personnel or for other than the intended purpose.

Weighing down and riding on the machine is forbidden.

The machine must not be used on slopes with a gradient of more than 25°.

Do not use the machine on hard concrete, set asphaltic surfaces, highly frozen or unstable surfaces.

Who is allowed to operate the machine?

Only suitable qualified, instructed and authorised persons over 18 years of age may operate the machine.

In variance from this, minors can be employed, as long as it is necessary to their training objective and their protection is assured by a supervisor.

Persons under the influence of alcohol, medication or drugs must not operate, maintain or repair the machine.

Maintenance and repairs, in particular of hydraulic systems and electronic components require special knowledge and must be carried out only by skilled persons (mechanics specializing in construction and agricultural machinery).

Conversions and modifications to the machine


Unauthorized modifications and conversion of the machine are not permitted for safety reasons.


Spare parts and special equipment not delivered by Stanley are also not approved by Stanley. The installation and/or the use of such parts can also have a detrimental effect on the operating safety.


The manufacturer disclaims all liability for any damage resulting from the use of non-original parts or special equipment.

Safety information contained in the operating and maintenance instructions

The following terms and symbols are used in this operating manual that draw attention to important information:

 **Attention** Refers to special information and/or orders and prohibitions directed towards preventing damage

 **Danger** Refers to orders and prohibitions designed to prevent injury or extensive damage.

 **Important** Refers to special information on how to use the machine most efficiently.

Transporting the machine

Always shut off the motor when loading and transporting.

Only load and transport the machine as specified in the operating instructions.

Only use suitable means of transport and hoisting with sufficient loading capacity! Attach suitable slinging means to the points of attachment provided.

Secure the machine to prevent it from tilting or slipping.

It is highly dangerous to walk or stand under suspended loads. Secure the machine on transport vehicles to prevent it from rolling, slipping and tilting.

Starting the machine (Prior to starting)

Familiarise yourself with the operating and control elements and the mode of operation of the machine and the working environment. This includes, e.g. obstacles in the working area, loading capacity of the ground and the necessary safety provisions.

Use personal protective equipment (safety footwear, hearing protectors, etc.). Check to ensure that all safety devices are firmly in place. Do not start the machine if instruments or control devices are faulty.

Starting

For machines with hand start, only use the safety cranks tested by the manufacturer, and precisely follow the operating instructions of the motor manufacturer.

To crank-start diesel motors; Important is the correct position to the motor and the correct hand position on the crank.

The hand crank must be turned with maximum force until the motor starts, otherwise the crank can rebound.

Precisely follow the starting and stopping procedures specified in the operating instructions and observe indicator lights.

Only start and operate machines with an electrical starter from the instrument panel. Starting and operation of the machine in potentially explosives atmospheres is forbidden!

Starting with battery junction cables

Connect «positive» to «positive» and «negative» to «negative» (earthing lead). Always connect the earthing lead last and disconnect first! Incorrect connection will cause serious damage to the electrical system.

Starting in enclosed spaces, tunnels, mines or deep ditches

Engine exhaust gas are highly dangerous!

For this reason, when operating the machine in enclosed spaces, tunnels, mines or deep ditches, it is important to ensure that there is sufficient air to breath (see UVV „Construction work“, VBG 37, paragraphs 40 and 41).

SAFETY

Machine control

Operating devices which adjust themselves automatically when released in normal use, must not be locked.

Check protective devices and brakes for proper functioning prior to operation.

When reversing, particularly on the edges and banks of ditches, as well as in front of obstacles, the machine operator cannot fall or be crushed.

Always keep a safe distance away from the edges and banks of ditches and refrain from any actions which could cause the machine to topple over!

Always control the machine, so that hand injuries through hard objects are avoided!

Always ascend slopes carefully in a direct path.

Reverse up steep slopes to prevent the machine from toppling over on to the machine operator.

If faults on the safety devices or other faults detrimental to the safe operation of the machine are noticed, operation of the machine must be stopped immediately and the faults remedied.

When undertaking compaction work in the vicinity of buildings or above pipelines and similar, check the effect of the vibrations on the buildings and pipes and stop compaction work if necessary.

Parking the machine

Park the machine on a firm and level surface.

Shutdown the drive and secure it to prevent accidental movement and unauthorized use. If available, close the fuel valve. Do not place or store equipment with integrated moving gear on the chassis. The moving device is intended only for transportation purposes.

Filling Fuel

Only fill fuel by switched-off motor. No open fire, do not smoke.

Do not spill any fuel, collect discharging fuel in a suitable container, prevent fuel from seeking into the soil.

Ensure that the filler cap is tight.

Leaky fuel tanks constitute an explosion hazard and must therefore be replaced immediately.

Maintenance and repairs

Observe the maintenance, inspection and adjustments and intervals specified in the operating instructions, as well as the information for part replacement.

Maintenance work must be undertaken only by qualified and authorised persons.

Maintenance and repairs only by switched-off drive.

Only carry out maintenance and repairs when the machine is parked on a firm and even surface and is secured to prevent it from rolling.

When changing larger assemblies and individual components, only use suitable and perfectly functioning hoisting and lifting gears with suitable loading capacity. Attach and secure parts on hoisting carefully!

Spare parts must comply with the technical requirements of the manufacturer. Therefore only use original spare parts.

Hydraulic lines must previously be rendered pressureless, before working on them. Hydraulic oil discharging under pressure can cause serious injuries.

Work on hydraulic devices must be undertaken only by persons with a special knowledge of hydraulics and the necessary experience!

Do not adjust pressure relief valves.

Drain hydraulic oil at operating temperature—caution risk of scalding!

Collect discharging hydraulic oil and dispose of the same in an environmentally-friendly manner.

Do not start the motor when hydraulic oil has been drained off.

After completing all work (by pressureless system), inspect all connections and bolted connections for leaks.

Inspect all hoses and bolted connections for leaks at regular intervals and any externally visible damage! Rectify any damage immediately.

Replace externally damaged hydraulic hoses at regular intervals (depending on time used), even when no safety-relevant faults are visible.

Before working on the electrical system of the machine, disconnect the battery and insulate by covering or remove.

Inspect the electrical equipment of the machine at regular intervals. Faults such as loose connections, worn or scorched cables must be immediately eliminated.

During transport, secure the battery to prevent it from tilting, short-circuit, slipping and damage.

Dispose of used batteries in a proper manner. Do not place any tools on the battery.

Handling acid-batteries

Transport filled batteries upright to prevent acid spillage.

Keep away from sparks, open fire and other sources of ignition. Avoid contact of acid with skin and clothing. In case of contact, wash off acid immediately with clear water and go to medical institution.

Properly refit and inspect all protective devices after maintenance and repairs.

Disposal of the machine after finish of its service life

At disposal of the machine after finish of its service life, the owner is obliged to comply with national regulations and laws on wastes and protection of environment. Therefore we recommend in such cases to contact the following:

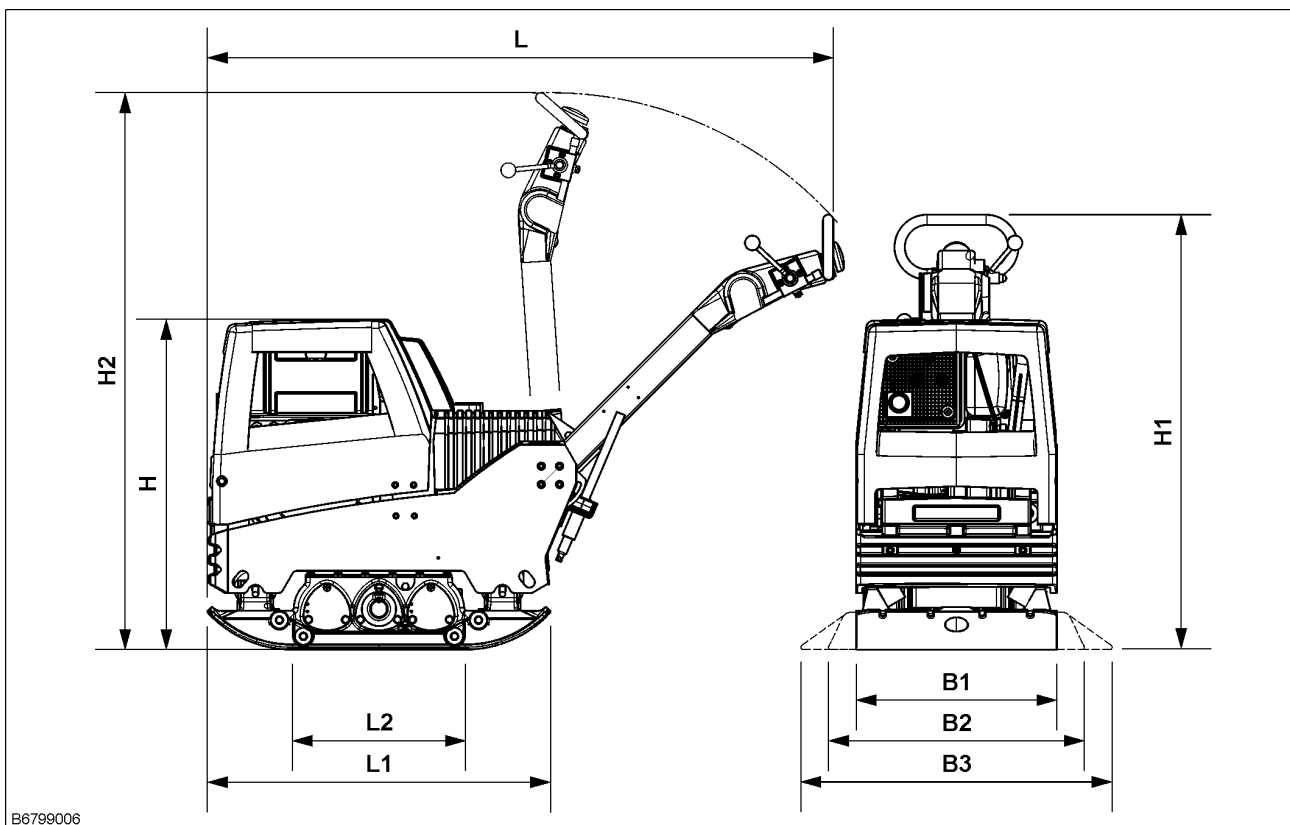
- professional specialized companies engaged in such activities and having the relevant certificate
- the manufacturers or contracting service organizations authorized by him.

The manufacturer is not responsible for damages to health of owners neither for damages to the environment in events of failing to comply with above mentioned hygienic and ecological principles.

Testing

Road rollers, trench rollers and vibrating plates must be tested for safety by an expert depending on the particular application and operating conditions as required, however at least once a year.

TECHNICAL DATA



	SRP 6570
1. DIMENSIONS	
L	1840 MM (72.44 IN)
L1	930 MM (36.61 IN)
L2	470 MM (18.50 IN)
H	870 MM (34.25 IN)
H1	CA. 1000 MM (39.37 IN)
H2	CA. 1500 MM (59.06 IN)
WORKING WIDTH, BASE UNIT	550 MM (21.65 IN)
W. MOUNT. BRACKETS 75 / 150 MM	700 / 850 MM (21.56 / 33.46 IN)
2 WEIGHTS	
BASIC UNIT	491 KG (1082.47 LB)
W. MOUNT. BRACKETS 75 MM	515 KG (1135.38 LB)
W. MOUNT. BRACKETS 150 MM	527 KG (1161.84 LB)
ELECTRICAL STARTER	+ 18 KG (39.68 LB)
ELECTR. DEAD MAN'S CONTROL	+ 19 KG (41.89 LB)
ACEecon	+ 18 KG (39.68 LB)
3. DRIVE	
ENGINE	HATZ 1D81 S
TYPE	1-CYL-4-STROKE DIESEL
POWER OUTPUT	10.1 KW (13.7 HP)
SPEED	3000 1/MIN
COOLING	AIR
FUEL CAPACITY	7 L (1.85 GAL)
FUEL CONSUMPTION	2,5 L /H (0.66 GAL/H)
MAX. SLOPING POSITION	30°

TECHNICAL DATA

	SRP 6570
MAX. GRADE ABILITY	36%
DRIVE	HYDRAULIC
CONTROL (FORWARD / REVERSE)	HYDRAULIC
4. OPERATING SPEED	
	0 - 32 M/MIN (0 - 34.5 YD.)
5. VIBRATION	
CENTRIFUGAL POWER	65 KN
VIBRATION FREQUENCY	55 HZ
6. SUPERFICIAL POWER	
BASE UNIT	1056 m ² /h (11366.69 ft ² /h)
W. MOUNT. BRACKETS 75/150 MM	1344 (14466.7 ft ² /h) / 1632 m ² /h (17566.7 ft ² /h)
7. SPECIAL EQUIPMENT	
VULKOLLAN PLATES	SEE PARTS MANUAL PAGE 5 (ITEM 7) ALSO REQUIRES HARDWARE TO ATTACH.
EXTENSION PLATE 75 MM/3 IN.	STANDARD P/N-75972
EXTENSION PLATE 150 MM/6 IN.	O P/N-75973
HOUR METER	STANDARD
CONTROL SYSTEM	O
E STOP	O
DEAD MANS HANDLE	O
	O = Option / S = Serial / — = Not available
9. NOISE AND VIBRATION DATA	
THE FOLLOWING NOISE AND VIBRATION DATA ACCORDING TO EC MACHINERY DIRECTIVE IN THE VERSION (2006/42/EC), WAS DETERMINED, TAKING INTO ACCOUNT THE FOLLOWING STANDARDS AND DIRECTIVES. IN OPERATIONAL USE, VALUES CAN DEVIATE DEPENDING ON THE PREVAILING CONDITIONS.	
9.1 NOISE DATA	
THE NOISE DATA SPECIFIED IN APPENDIX 1, SUB-CLAUSE 1.7.4.U OF THE EC MACHINERY DIRECTIVE IS FOR:	
SOUND PRESSURE LEVEL AT THE WORKPLACE LPA	95.0 dB
MEASURED SOUND POWER LEVEL LWA,M	107 dB
GUARANTED SOUND POWER LEVEL LWA,G	109 dB
THE NOISE VALUES WERE DETERMINED, TAKING INTO ACCOUNT THE FOLLOWING DIRECTIVES AND STANDARDS: DIRECTIVE 2000/14/EC / EN ISO 3744 / EN 500-4	
9.2 VIBRATION DATA	
HAND/ARM VIBRATION VALUES ACCORDING TO APPENDIX 1, SUB-CLAUSE 3.6.3.1 OF THE EC MACHINERY DIRECTIVE:	
TOTAL VIBRATION VALUE OF THE ACCELERATION AHV	6.4 m/s ² (6.99 yd/s ²)
UNCERTAINTY K	1.0 m/s ² (1.09 yd/s ²)
THE ACCELERATION VALUE WAS DETERMINED, TAKING INTO ACCOUNT THE FOLLOWING DIRECTIVES AND STANDARDS: EN 500-4 / DIN EN ISO 5349	



Wear Ear
Protection

1) AS THE PERMISSIBLE RATING SOUND LEVEL OF 85 DB (A) CAN BE EXCEEDED BY THIS MACHINE, OPERATORS MUST WEAR HEARING PROTECTORS.

OPERATION

Description

The SRP 6570 is a reversible vibrating plate operating on the basis of the twin-shaft resp. three-shaft vibration system principle. The Engine drives the exciter on the baseplate via hydraulic components.

The exciter produces the vibration required for compaction owing to the incorporated out-of-balance weights.

The machine is guided at the tow-bar grip. It is operated with the operating controls on the tow-bar.

The SRP 6570 is suitable for all heavy compaction work in the fields of civil Engineering and road construction.

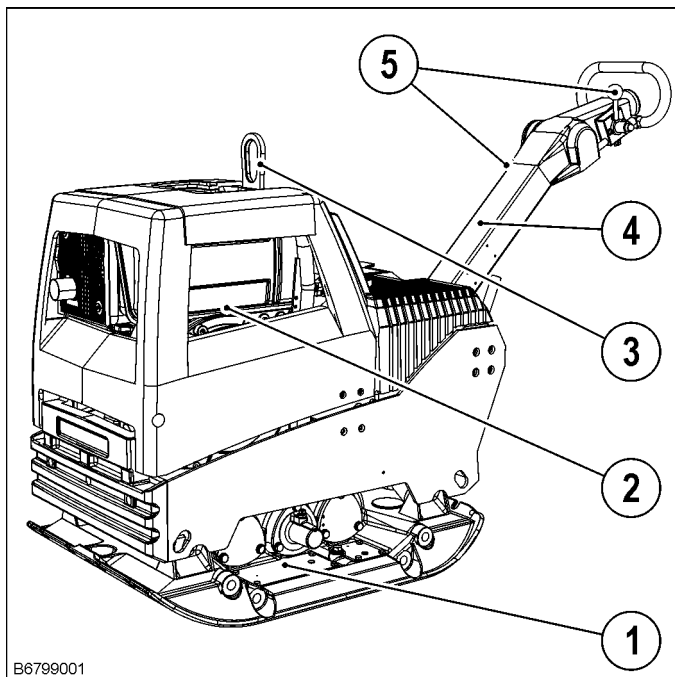
It can be used to compact all ground materials such as sand, gravel, slag, crushed stone, asphalt and composite sett paving.



Take great care on downslopes. The machine could slip down causing to loose material or if the surface is slippery.

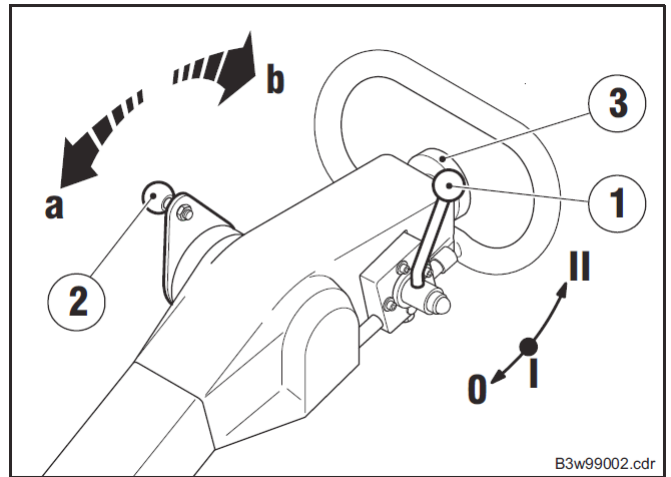
Do not work on hard concrete or set asphalt surfacing.

Overview of components



- 1 BASEPLATE WITH EXCITER
- 2 ENGINE
- 3 CENTRAL-POINT SUSPENSION
- 4 TOW-BAR
- 5 OPERATING CONTROLS / TOW-BAR

Operating control on the tow-bar



- 1 Engine speed control lever
- 0 Engine stop
- I Idle (detent position)
- II Full load

The Engine speed can be adjusted with the control lever. At minimum Engine speed (I), the drive to the exciter is disconnected at the centrifugal clutch and the Engine idles.

The centrifugal clutch engages when the control lever is moved approximately 1/4 of its adjustment travel.



The Engine speed should always be well below or well above the engaging speed of the centrifugal clutch, otherwise, the clutch linings will wear very quickly or could even be destroyed.

- 2 Drive lever
- a Forward
- b Reverse

The drive lever serves to adjust the movements in the exciter and therefore provides a stepless control:

- of the travel direction forwards (a) / backwards (b)
- of the speed

3 Emergency stop connection

The emergency stop switch serves to immediately stop the machine in emergency situations.

Once the switch knob is pressed the power transmission is interrupted and the machine itself stops though the Engine continues to run.

Following the pressing of the switch during operation:

- The switch is released by withdrawing it (pull back out).
- Normal operation can then be immediately resumed. (The travel direction and speed do not need to be reselected).



Engine start is possible with the switch depressed.

OPERATION

Before Operation



Use personal protective equipment (in particular hearing protectors and safety shoes). Observe all safety conditions.

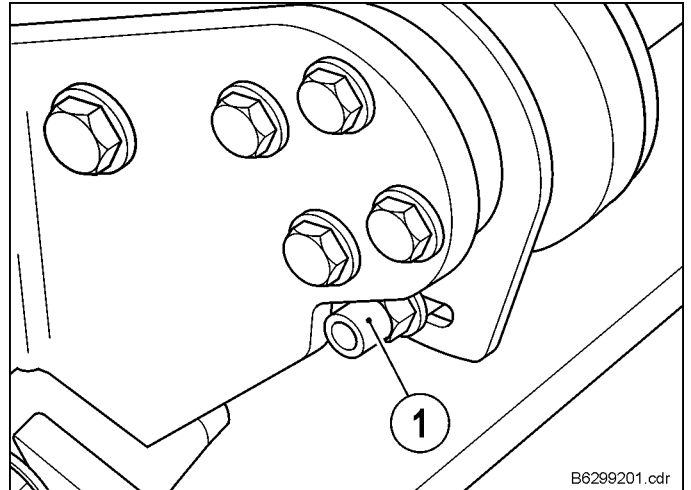
Observe the operation and maintenance instructions.

Read the engine operating instructions. Observe the Important on safety, operation and maintenance contained in them.

- Stand the machine on an even surface.
- Check
 - the engine oil level
 - the hydraulic oil level
 - the fuel supply
 - that screw connections are secure
 - the condition of the engine and the machine.
- Top-off any missing lubrication in accordance with the lubrication table.

Adjusting / Locking the tow-bar

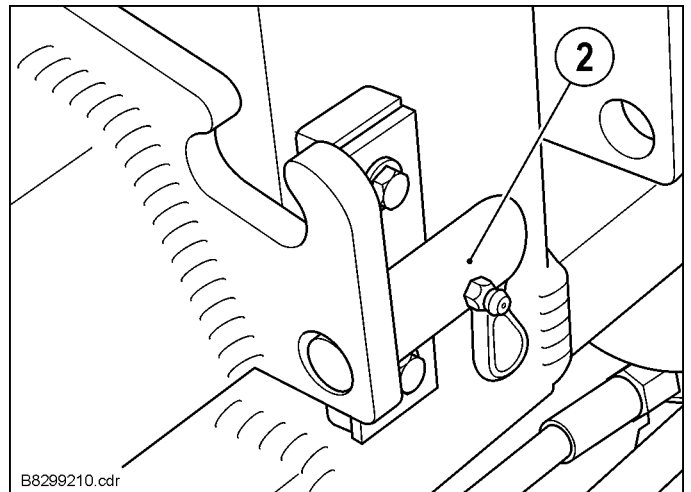
Adjusting the tow-bar



B6299201.cdr

The two stops (1) on the tow-bar element can be adjusted to any position in order to achieve the best working height on the tow-bar grip.

Locking the tow-bar



B8299210.cdr

The handle can be fixed in upright (2) position. The tow-bar lock makes it easier to handle the machine when loading it.



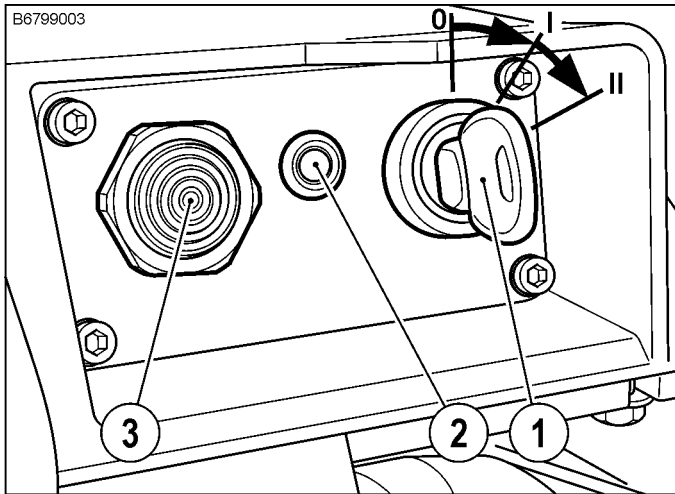
To prevent deflection, the tow-bar must not be locked during normal operation.

OPERATION

Engine Operation

Starting the Engine

Important The load indicator light (2) monitors the functioning of the alternator. It illuminates when the engine is stopped and in the ignition on (position «I») and must go out when engine runs.



- Set the engine speed lever to full load.
- Machines with emergency-stop-connection: Press emergency-stop-connection.
- Insert the ignition key (1) and turn to «I»; the charge indicator (2) lights up and a horn* (3) sounds.
- Turn the ignition key (1) to «II».

Warm up Instructions:

If the engine starts,

- release the ignition key (1) and
- set the engine speed lever to idle.
- Allow the engine to run for 1-2 minutes in order to warm up.

Attention Only operate the starter with a stationary engine. Do not operate the starter for more than 20 – 30 seconds.

Immediately release the ignition key when the engine runs.

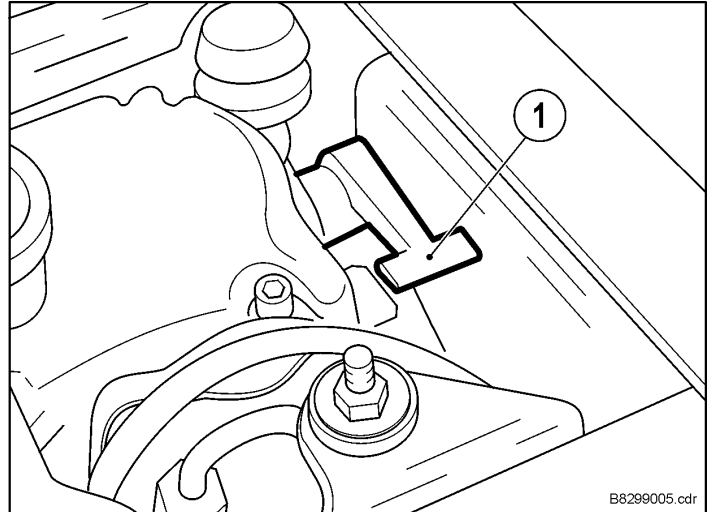
Wait for 30 seconds before trying again.

Never turn the key to the «0» position when the engine is running. The regulator can be destroyed and the battery will not charge !

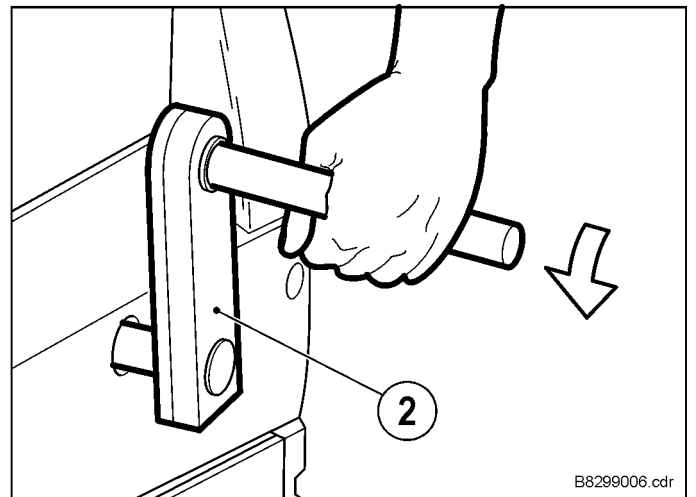
Hand Start

Attention Machines with electrical starter: Never hand start with a disconnected battery, this leads to immediate destruction of the regulator.

- Set the engine speed control lever to full load.
- Machines with emergency-stop-connection : Press emergency-stop-connection.
- Machines with electrical start : Turn ignition key via position I.



- Move the decompressor (1) lever until it stops in start position.



- Insert the starting crank (2) and turn it with increasing speed.

After starting of the engine,

- release ignition key.
- Set the speed lever to idle.
- Allow the engine to run for 2-3 minutes in order to warm up.
- If misfire ignition return the decompressor lever to its initial position and repeat steps 1-5.

OPERATION

Switching-Off the Engine

Attention **DO NOT SWITCH-OFF THE ENGINE WHILE UNDER FULL LOAD AND DO NOT USE THE DE-COMPRESSOR LEVER.**

- Allow the engine to run a short while on idling.
- Set the speed lever to stop. Additionally by electrostart:
- Turn the ignition key to «0» position. (The indicator lamps should go out.)

Important *The horn will sound if the ignition key is not returned to the «0» position; a risk of total battery discharge exists.*

- Remove the key.

Danger At the end of a working day or on a break protect the key from unauthorised access.

Automatic engine cut-off

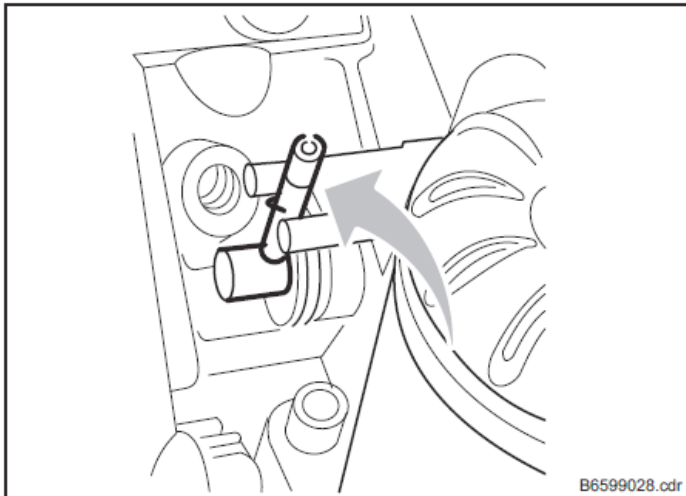
Machines are equipped with a safety engine cut-off. The engine switches-off automatically if

- the oil pressure is too low
- the lubrication oil is unstable as a result of
 - excessively high oil temperature
 - incorrect basic viscosity
 - dilution of the oil by fuel or water
- the lubricating oil filter is blocked
- a leakage in the oil relief valve
- leakages in pipes and seals
- the oil pumps and bearings are worn.

Attention **If the oil level is too low or the machine is tilted too much, it can lead to a mixture of air/oil and thus to a loss of viscosity.**

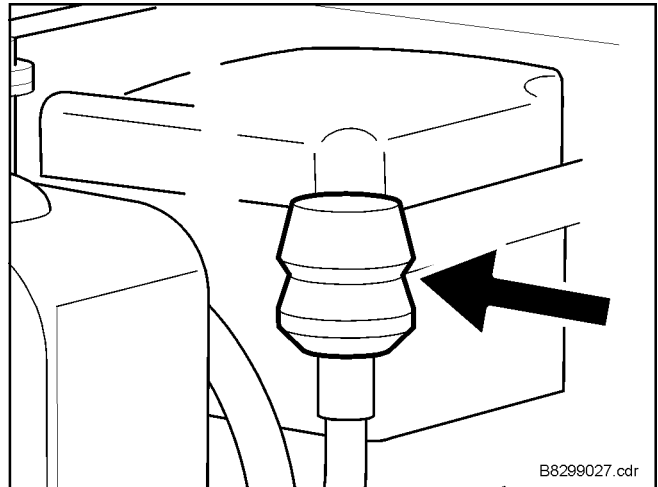
If the engine cuts-out because the supply of lubricating oil is insufficient, proceed as follows :

- Locate the fault and have it rectified.



- Press the lever few seconds.
- Start the engine.

Air filter maintenance indicator



The motors are equipped with a maintenance indicator for air filters. In case of pollution of the filter element the rubber bellow contracts by underpressure.

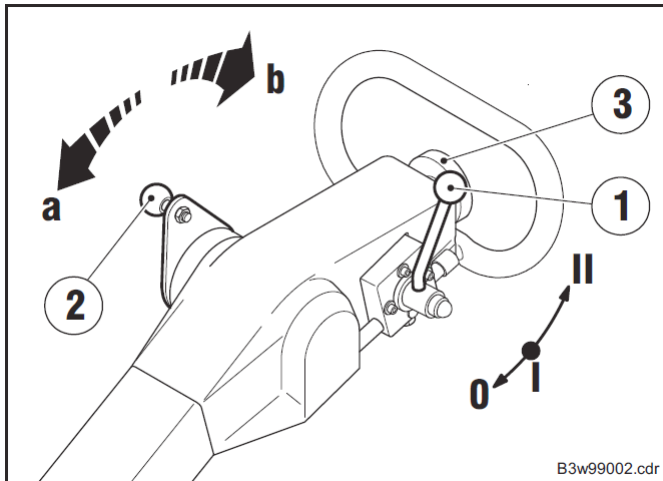
In this case, switch-off the motor and clean or replace the air-filter.

OPERATION / TRANSPORT

Operation



Under adverse conditions start-up of the exciter may be impeded. Then the engine cannot reach its nominal RPM. This can be remedied by activating the drive lever (2) several times.



- Set the speed lever (1) in full load direction.



To avoid coupling damages, take care that the motor speed of the machine with centrifugal clutches are clearly above or resp. below the starting speed (about 1200 rpm).

The motor has to be shut-off during long working breaks; long idle time can cause motor damages.

- Adjust the drive direction and speed at the drive lever (2).
- Guide and steer the machine at the tow bar; during this operation **the operator should stand alongside the tow bar for safety reasons until the machine is functioning normally.**



For compaction of paving stones, it is recommended to use Vulkollan plates and protective brackets (special accessories) to prevent damages to the compaction material and to the machine.

If the machine is used without protective bracket, the threaded fastenings in the base plate must be sealed with the supplied screw plugs .

Loading and Transportation



Only use sufficiently strong and secure loading ramps when loading.

Check the contact points (frame, lifting rings) before use for damage and wear. Immediately replace damaged parts.

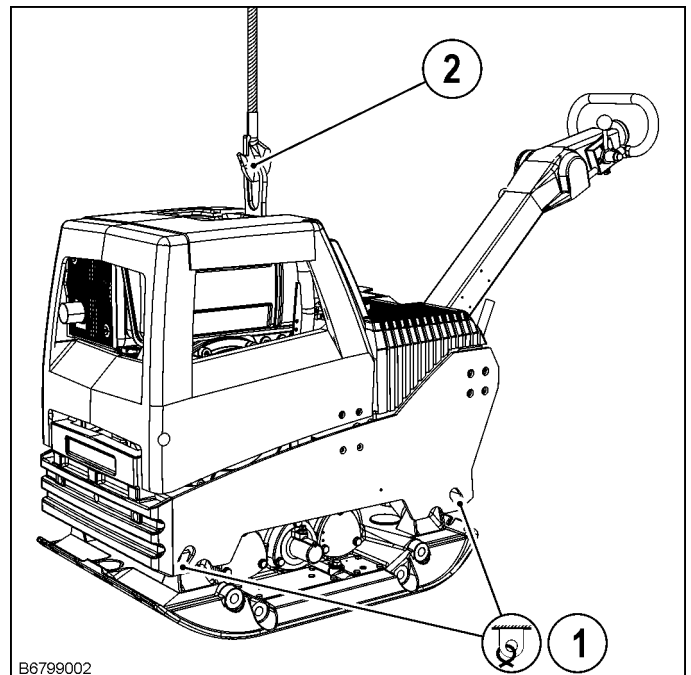
Secure the machine against rolling or slipping off and against tipping over.

Ensure that no persons will be endangered.

When loading, lashing down and lifting the machine always use the provided lifting points. Persons are in danger, if they:

- go near swinging loads or
- stand under swinging loads

After loading lock the tow bar.



After loading, the machine has to be attached in place (1). Use the centre-of-gravity suspension point (2) in order to lift the machine.

MAINTENANCE

General Information

Maintenance:

- ➔ increased service life
- ➔ increased function
- ➔ reduced downtimes
- ➔ increased reliability
- ➔ reduced repair costs
- Observe the safety regulations!
- Maintenance works should only be carried out when the engine is shut off.
- The engine and machine should be cleaned thoroughly before carrying out maintenance work.
- Park the machine on a flat surface and secure it against rolling away and slipping.
- Ensure that operating materials and replaced parts are disposed of safely and in an environmentally-friendly way.

- Before commencing work on any electrical equipment, disconnect the battery and cover it with insulating materials.
- Do not exchange «PLUS» and «MINUS» poles on the battery.
- It is essential that short-circuits be prevented in cables carrying current.
- Before welding work on the machine disconnect all battery connections and cables.
- Burn-out lightbulbs in indicator lamps should be replaced immediately.
- When cleaning the machine with a high-pressure water jet, do not spray the electrical components directly.
- After cleaning the components, blow-dry them with compressed air in order to prevent surface corrosion.

Maintenance Schedule

Maintenance-Works	Intervals	Daily	20 h	50 h	100 h	250 h	500 h	1000 h	If Necessary
Clean machine		•							
Check engine oil level ¹⁾		•							
Change engine oil ¹⁾			• ³⁾			•			
Clean engine oil filter ¹⁾			• ³⁾						
Check air filter ¹⁾		•							
Change air filter element ¹⁾				•			•		
Check suction air intake ¹⁾		•							
Check valve clearance ¹⁾			• ³⁾			•			
Drain water (Fuel tank ¹⁾)			•						
Change fuel filter ¹⁾								•	
Check rubber buffers					•				
Exciter: Check oil level				•					
Exciter: Change oil ²⁾					• ³⁾	•			
Check hydraulic oil level		•							
Change hydraulic oil ²⁾							• ³⁾	•	
Change return filter element ²⁾			• ³⁾					•	
Change ventilation filter ²⁾							• ³⁾	•	
Clean suction filter ²⁾							• ³⁾	•	
Check the hydraulic hose lines					•				
Check screwed connections for tightness			• ³⁾		•				

¹⁾See engine operating manual

²⁾Minimum once a year

³⁾for the first time

MAINTENANCE

Lubrication Schedule

Lubricating point	Quantity (l)	Changing intervals [operating hours]	Lubricant
1. Engine (incl. oil filter)			
SRP 6570	1.8 l (1.9) / 0.47 (0.50) GAL	250	Engine oil API SG-CE SAE 10W40
2. Exciter			
SRP 6570	1.8 l / 0.47 GAL	250 or annually	Gear oil in acc. with JDM J 20 C
3. Hydraulic			
SRP 6570	2.0 l / 0.52 GAL	First time after 500, then every 1000 or annually	Hydro-Oil HVLP 46
4. Return filter element			
SRP 6570		First time after 20, then with each hydr. oil change	
5. Ventilation filter			
SRP 6570		with each hydr. oil change	
6. Clean suction filter			
SRP 6570		with each hydr. oil change	

Alternative Lubrication Schedule

	Engine oil API SG-CE SAE 10W40	Gear oil in acc. with JDM J 20 C	Special hydro-oil ISO-VG 32	Hydr.-oil HVLP 46	ATF – oil
ARAL	Extra Turboral SAE 10W40	Fluid HGS	Vitam GF 32	Vitam HF 46	ATF 22
BP	Vanellus C6 Global Plus SAE 10W40	Hydraulik TF-JD	Energol HLP-HM 32	Bartran HV 46	Autran MBX
CASTROL	Tecton SAE 10W40	Agri Trans Plus	Hyspin SP 32	Hyspin AVH-M 46	TQ-D
ESSO	Ultra 10W40	Torque Fluid 56	Univis N 32	Univis N 46	ATF 21611 II-D
FINA	a. Kappa FE b. Kappa Turbo DI	Transfluid AS	a. Hydran TSX 32 b. Biohydran TMP 32 ²⁾	—	Finamatic II D
FUCHS	Titan Unic MC	Agrifarm UTTO MP	a. Renolin ZAF 520 b. Plantohyd 32 S ²⁾	Renolin B 46 HVI	Titan ATF 3000
KLEENOIL PANOLIN	—	—	Panolin HLP Synth 32 ²⁾	—	—
MOBIL	a. Delvac SHC b. Mobil Super M 10W40 c. Mobil Super S 10W40 ¹⁾	a. Mobilfluid 424 b. Mobilfluid 426	Mobil DTE 24	Univis N 46	ATF 220
SHELL	Engine Oil DG 1040	Donax TD	Tellus T32	Tellus T 46	a. Donax TA b. Donax TX
TOTAL	Rubia Polytrafic 10W-40	Transmission MP	Azolla ZS 32	Equivis ZS 46	Fluide ATX

¹⁾Semi-synthetic light-duty oils

²⁾Biological multi-purpose hydraulic-oils;

The miscibility and compatibility with mineral oil based hydraulic oils and biological hydraulic-oils should be examined in the individual case.
The residual mineral oil content should be reduced acc. to VDMA specification 24 569.

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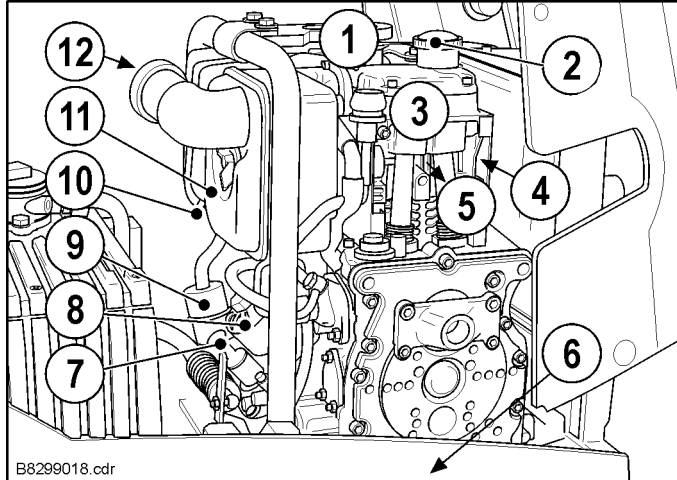
MAINTENANCE

Maintenance Work on the engine



Only maintenance work which has to be performed daily is included in the Operating Manual. Please refer to the engine Operating Manual and to the maintenance instructions and intervals listed therein.

Overview



- 1 Fuel filling socket
- 2 Oil filling socket
- 3 Air filter maintenance indicator
- 4 Cooling air intake
- 5 Cooling air outlet
- 6 Oil outlet
- 7 Oil measuring dip
- 8 Oil filter
- 9 Fuel filter
- 10 Water outlet, fuel tank
- 11 Air filter
- 12 Suction orifice - Combustion air

Filling-up with fuel



Only top-off fuel with the motor off.
No open fire. Do not smoke.
Do not fill-up in closed rooms.
Do not inhale petrol fumes.
Collect spilt fuel in a suitable container and prevent spillage entering the soil.

- Clean around the fuel filler socket (1).
- Open the fuel filler socket and
 - Visually check the fuel level.
 - Top-off if necessary. All diesel oils sold as fuel must complying with the following minimum specification can be used: EN 590 or DIN 51601 - DK or BS 2869 A1 / A2 or ASTM D 975 - 1D /2D
- Close the tank tightly.

Check the engine oil level



Immediately replace damaged seals.

Collect old oil and dispose of it in an environment friendly manner.



Do not permit oil to run onto the floor into the drains.

- Park the machine horizontally.
- Clean the area around the measuring dipstick.
- Draw out the measuring dipstick (7), wipe-off with clean, lint free cloth.
- Insert measuring dipstick again until it stops.
- Draw out measuring dipstick again and check oil level.
- If necessary, refill oil to the upper marking.
- Clean area around filler socket.
- Open the filler socket (2).
- Fill-in required oil quantity.
- Secure oil filling socket.
- Insert measuring dipstick.
- Allow the motor to run for approx. 1 min. and check oil level; repeat if necessary.

Check area around combustion air and cooling air system

Check intake opening for combustion air and cooling air intakes. Remove coarse obstructions such as leaves, stones and earth.

Draining off water (fuel tank)

The fuel tank must be checked once a week for accumulations of water in order to prevent water from penetrating into the sensitive injection system.

- Unscrew screw (10) to the last turn on the threads.
- Collect any drops which flow out into a clear container.
- Determine by visual inspection whether water is draining out (water settles to the bottom of the container).
- As soon as fuel flows out, close and tighten the screw.

Cleaning the air filter element

- Remove air-cover
- Carefully pull out filter element.
- Use a jet of dry compressed air (max. 5 bar/70 psi) to blow through the filter element from the inside outwards, moving it up and down at the same time, until no further dust emerges.
- Tilt the filter element and hold it against the light (or shine a light through it) to check for any cracks or other damage.

Change filter element if:

- The filter element or sealing ring is damaged
 - After cleaning twice
 - There are soot-containing deposits
 - Moist or oily
 - When engine performance reduces or
 - The color of the exhaust gas changes
- Never operate the engine without air filter element



Attention

- Clean the air cover and -housing with lintfree cloth.
- Carefully install the filter element.
- Install the cover.

MAINTENANCE

Maintenance Machine

Cleaning

Clean the machine thoroughly daily.

Attention After cleaning
– all cables, hoses, connections and connectors are to be checked for leakage, loose connections, chafing points and other damage.

– Detected faults are to be eliminated immediately.

No combustible or aggressive materials are to be used for cleaning.

Tightening Torque

Ø	8.8		10.9		12.9	
	Nm	ft lb	Nm	ft lb	Nm	ft lb
M 4	3	2	4,4	3	5	4
M 5	6	4	8,7	6	10	7
M 6	10	7	15	11	18	13
M 8	25	18	36	26	43	31
M 10	49	36	72	53	84	61
M 12	85	62	125	92	145	106
M 14	135	99	200	147	235	173
M 16	210	154	310	228	365	269
M 18	300	221	430	317	500	368
M 20	425	313	610	449	710	523
M 22	580	427	830	612	970	715
M 24	730	538	1050	774	1220	899

Strength classes for screws with untreated, non-lubricated surface.

The values result in 90% utilisation of the apparent yielding point at a friction coefficient $\mu_{ges} = 0.14$.

Tightening torques are checked for correctness using torque wrenches.

When using lubricant MoS₂, the specified values do not apply.

Important Renew self-locking nuts after each removal.

Screwed Connections

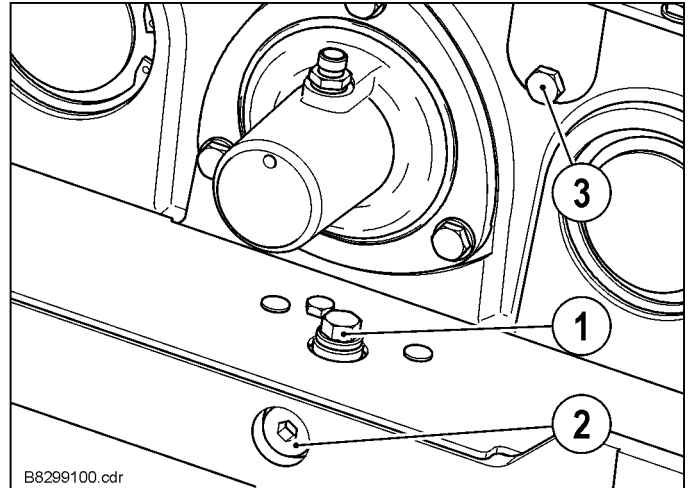
With vibrating machines, it is important to check all screwed connections for tightness at regular intervals. Observe tightening torques.

Changing rubber buffer

Inspect the rubber buffers for cracks and chipping as well as tightness and immediately replace if damaged.

Exciter: Oil change / Oil level

Important Check / change exciter oil when its warm. The venting screw (3) must always be unscrewed first when checking the oil level or changing the oil.

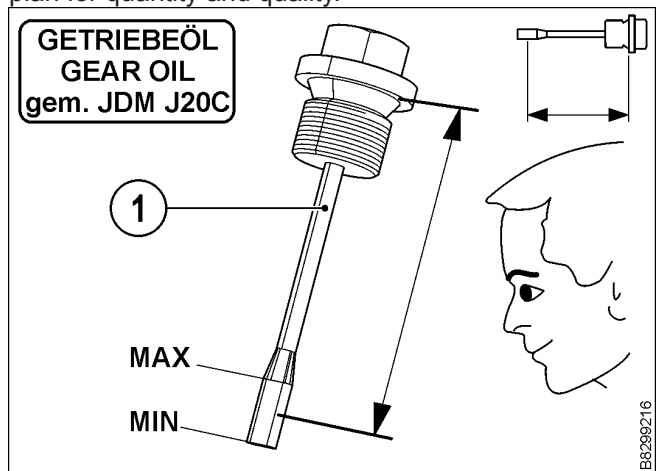


- Unscrew venting screw (3), oil filling plug (1) and oil drain plug (2).
- Drain-off old oil.

Danger Care is to be taken with the draining of hot oil : danger of scalding!

Environment Collect oil which has run out or overflowed and dispose it in an environment friendly manner.

- Screw-in oil drain screw (2).
- Fill-in new oil through the oil fill hole (1). See lubrication plan for quantity and quality.



Attention When the dipstick is screwed in, the optimal oil level is between the «MIN» and «MAX» markings.

- Replace oil filling plug (1) and venting screw (3).
- Unscrew oil filling plug (1), check the oil level again and top off with oil if necessary.
- Replace oil fill plug/dipstick (1).

MAINTENANCE

Hydraulic



Before working on any hydraulic system or lines make the system make sure the system or line pressure has been released or discharged.

Carry out the change of hydraulic oil while it is still warm in accordance to the lubrication plan and the lubrication table.

Do not start the motor while the hydraulic oil is draining under any circumstance.

Immediately replace any damaged seals.

Change the return filter element and the air filter with each change of hydraulic oil.

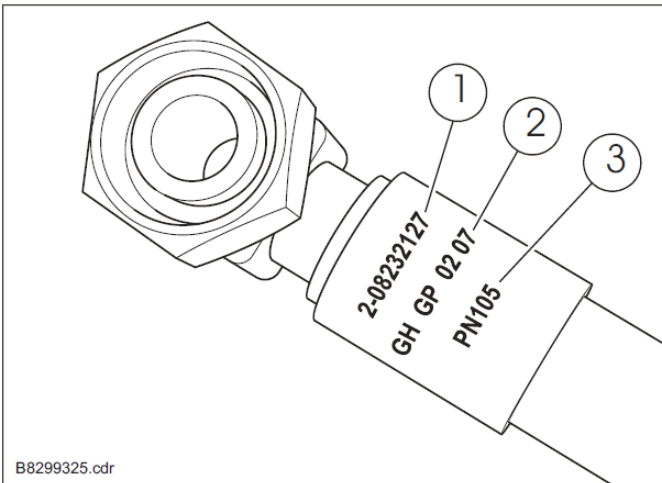
Change the hydraulic oil also after each major repair on the hydraulic unit.

Collect the drained-off hydraulic oil and dispose it in an environment friendly manner.



Environment

Hydraulic Hose Lines



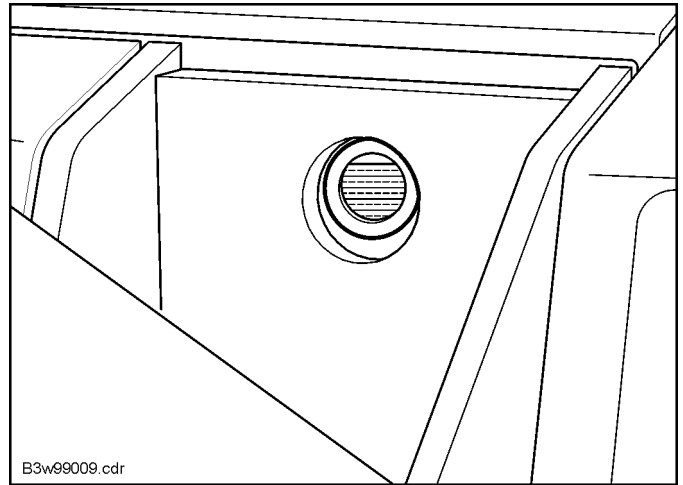
- 1 Serial No.
- 2 Manufacturer/Month and year of manufacture
- 3 Max. operating pressure

The function of hydraulic hose lines must be tested at regular intervals (minimum once a year) by an expert (with a knowledge of hydraulics).

Hose lines must immediately be replaced in the following instances:

- Damage to the outer layer to the inner lining (abrasion marks, cracks, cuts, etc.).
- Brittleness of the outer layer (cracking of hose covering).
- Unnatural deformations of the hose line. This applies to both a pressureless and pressurized condition (e.g. layer separation, blister formation, crushed areas, kinks).
- Leaks.
- Damage or deformation of hose fittings (impaired sealing function).
- Hose slips out of the fitting.
- Corrosion of fitting (degrading of function and strength).
- Improper installation.
- Use beyond the expiry date of max. 6 years.

Check the hydraulic oil level



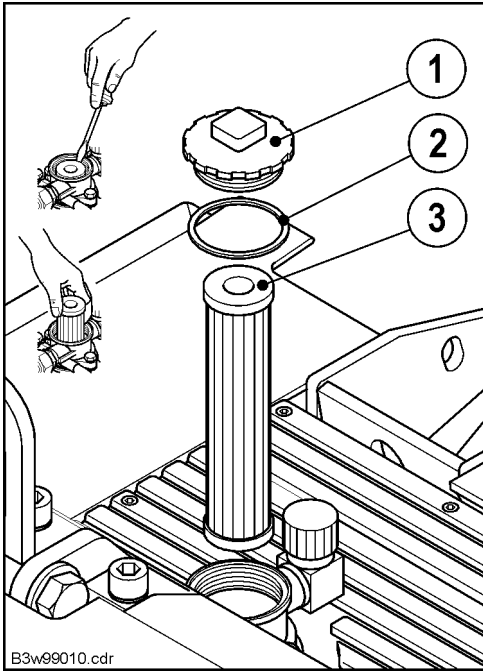
- Check the oil level through the oil gauge glass.
- If necessary top off the oil level up to the upper area of the glass.



If hydraulic oil is not visible through the gauge glass, the components, hoses and connections need to be checked immediately for leaks.

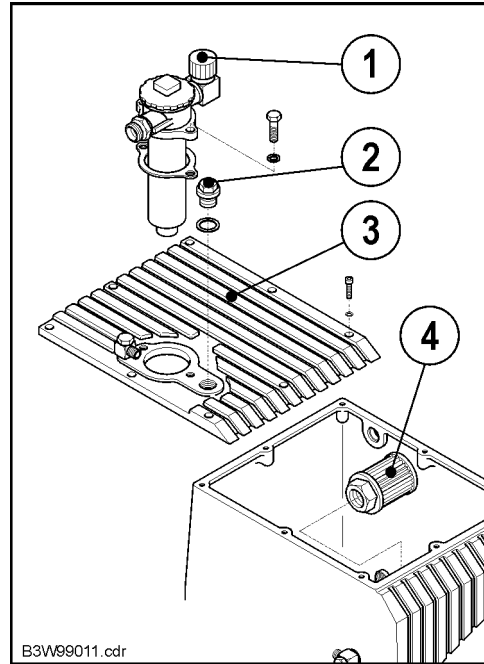
MAINTENANCE

Changing the return filter element



- Remove the filter cover (1) take care not to damage the o-ring (2). Allow the oil in the filter housing to run through the filter element (3) and into the tank.
- Lift the filter element out with a screwdriver and remove it together with the filter head from the head section.
- Remove the filter element by turning and pulling it at the same time from the filter head and dispose it in an environment friendly manner.
- Drain the remaining oil from the filter head into an old oil container and dispose it in an environment friendly manner.
- Clean the filter head with washing petrol or diesel oil.
- Check the surface seal and O-ring (2) and if necessary change them.
- Insert a new filter element in the filter head.
- Install the filter head with filter element into the head; taking care not to damage the O-ring.
- Screw on the filter cover and tighten with hand, check that the surface seal (2) is properly sealed.
- Take a test-run to ensure the filter is functioning properly.

Hydraulic oil change



Care is to be taken with the draining of hot oil : danger of scalding !
Wear eye protection - danger of eye injury!

- Open the oil fill screw (2) and the oil drain screw, drain off the oil and dispose it in an environment friendly manner.
- Remove the cover (3).
- Remove the intake filter (4) in the tank by unscrewing it.
- Wash out the intake filter in cold cleaner or washing petrol and blow out with compressed air.
- Thoroughly clean the hydraulic tank.
- Insert the clean intake filter.
- Carefully clean the seal and the seal surfaces.
- Install new sealing compound.
- Install the hydraulic tank cover
- Screw-in the oil drain screw, if necessary use a new seal.
- Replace the air filter (1) taking care with the O-ring.
- Add new oil, For oil quantity and type see the lubrication chart.
- Screw in the oil fill screw and tighten (if necessary use a new seal).
- Take a test run, check the oil level and if necessary top off.

BATTERY



Read the instructions on the battery.



Wear eye protection during all operations.



Keep children away from acid, batteries, and chargers.



Explosion hazard :

While charging batteries, a highly explosive oxyhydrogen mixture develops, therefore: Take precautions



Fire, sparks, open light, and smoking forbidden!

- Avoid spark creation when operating with cables and electric devices!
- Avoid short-circuits!
- Avoid electro-static discharges.



Corrosive hazard

Battery acid is highly corrosive, therefore:

- Wear protective gloves and eye protection during all operations on the battery.
- Do not tilt battery, acid may leak from the openings.



First aid

- Rinse out acid splashed in the eyes immediately for several minutes with clear water. Then consult a doctor immediately.
- Neutralize acid splashes on skin or clothing immediately with acid neutralizer (soda) or soap suds and rinse with plenty of water.
- If acid has been drunk, immediately consult a doctor!



Warning note

- Do not place batteries in direct sunlight without protection.
- Discharged batteries can freeze up (freezing point of acid of fully charged battery -70°C , at 50% state of charge)



Disposal

- Hand in old batteries at a collection point.
- The notes listed under point 7.0.1 are to be followed during transport.
- Never dispose of old batteries as domestic waste!
- Transport damaged batteries in suitable containers (acid leakage).

7.0.1 Storage and transport

- Unfilled batteries do not require any maintenance.
- Always store wet charged batteries in a cool place (but not in a refrigerator or freezer).
- Regularly check the state of charge or use charge maintaining devices.
- Recharge wet charged batteries at an acid density of 1.21 kg/l or 12.3 V open circuit voltage or after request for charge by the optical state of charge indicator at the latest (see point 7.0.4).
- Wet charged batteries are to be transported and stored up- right, protected against tipping over, and protected against short-circuit, since acid may escape otherwise.

7.0.2 Commissioning

- Regard safety regulations.
- Wet charged delivered batteries are ready for use. Only install sufficiently charged batteries, minimum 12.50 V open circuit voltage.
- Remove sealing plugs. Fill the individual cells of the battery with sulphuric acid according to DIN IEC60933-1 of density 1.28 kg/l up to the maximum acid level.
- Allow battery to stand for 15 minutes, tilt slightly several times, and refill acid if necessary.
- Tightly screw in or press in the sealing plugs.
- Wipe off any acid splashes.

- In case the battery does not show a sufficient starting performance due to too low temperature or unfavourable storage conditions, the battery needs to be recharged (see point 7.0.4).

7.0.3 Installation in and removal

- Prior to removing the battery, switch off the engine and all electric consumers.
- When removing the battery, first disconnect the negative terminal (-), then disconnect the positive terminal (+).
- Clean battery terminal and terminal clamps and treat them with acid-free grease.
- Clamp battery tightly (use original fastening).
- Only remove the protection cover from the positive terminal in the vehicle when connecting the battery and place it on the terminal of the replaced battery in order to avoid short-circuits and spark creation.
- When installing the battery, first connect the positive terminal (+), then connect the negative terminal (-).
- Assure the terminal clamps are tight.
- Use accessories such as terminal covers, elbow piece, tube connection, closing plugs and terminal clamp holders (where available) from the replaced battery and connect them the same way.
- Keep at least one degassing opening unclosed, otherwise explosion hazard (this also concerns the return transport of the old battery).

BATTERY

7.0.4 External charging

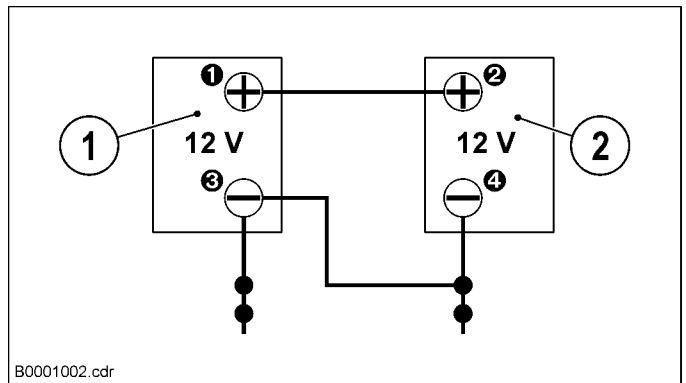
- Read and follow the manual of the charger manufacturer.
- Check electrolyte level before charging and balance it where necessary (see point 7.0.5 – maintenance)
- Only charge the battery with suitable, voltage regulated chargers with the same nominal voltage, otherwise the battery has to be disconnected/removed. Recommendation:
Charging current: 1/10 Ampere of the battery capacity Ah
Charging voltage: 14,4 V
- Never charge frozen batteries or batteries with a temperature higher than 45°C.
- Connect the positive terminal (+) of the battery with the positive terminal (+) of the charger and the negative terminal (-) of the battery with the negative terminal (-) of the charger.
- Only switch on the charger after connecting it to the battery.
- Only switch off the charger after charging has been completed.
- Interrupt charging if the acid temperature exceeds 55°C.
- In case the battery becomes hot or acid leaks, the charging must be interrupted!
- The battery is fully charged if:
 - Current and voltage remain constant with voltage regulated chargers.
 - The charging voltage does not rise anymore within two hours with a current regulated charger. The automatic charger switches off or switches over to maintain charge.
- Ensure good ventilation during charging.

7.0.5 Maintenance

- Keep the battery surface clean and dry, only clean with damp or antistatic cloth.
- Protect terminals/connection clamps against corrosion (as described under point 7.0.3).
- Control electrolyte level (regard inner or outer marking on the box or optical acid level indicator in the lid).
- If necessary, refill demineralised or distilled water according to DIN IEC 60933-3... up to the maximum acid level (never refill acid, foreign matters or so-called optimizers).
- In case of high electrolyte loss, consult Stanley.
- In case of insufficient starting performance, check battery and possibly recharge it (see point 7.0.4).

7.0.6 Jump Starting

- Only use standardized jumper cables (e.g. according to DIN 72 553).
- Read instructions of the jumper cable manufacturer.
- Only use batteries of the same nominal voltage.
- Switch off the engine of the giving vehicle (1).
- Connect jumper cables to the positive terminal (+) of the donor battery and then to the positive terminal (+) of the vehicle connection terminal.
- Only then connect the jumper cable to the negative terminal (-) on the donor battery and then to a sturdy, blank steel mass on the on the vehicle (**Do not use the negative terminal of the receiving battery as a point of connection**).



- Start the receiving vehicle.
- In case the first attempt to jump start the vehicle fails, try starting the donor vehicle first then attempt a second jump start on the receiving vehicle with the donor vehicle running.
- Disconnect the jumper cables in opposite order.

TROUBLESHOOTING

General Information

- Observe the safety information
- Only qualified and authorised persons may carry out repair work.
- In case of faults, the operating and maintenance instructions must be referred to for correct operation and maintenance.
- If the cause of the fault cannot be located or remedied, an authorised Stanley Service Center should be contacted.
- Always first check the most likely causes (fuses, LEDs, etc.).

Fault Table

Possible cause	Remedy	Remarks
Engine does not start		
Speed control lever in «STOP»-position No fuel reaching injection pump – Tank run dry – Fuel filter blocked – Defective feed pump Oil pressure lost Compression too low	Set lever to «START»-position Add fuel Renew fuel filter Function must be checked Check engine oil level Contact a HATZ-service center	Activate mechanical oil pressure monitor
Engine stops by itself during regular operation		
Fuel supply is interrupted – Tank run dry – Fuel filter blocked – Defective feed pump Oil pressure lost Mechanical defects	Add fuel Renew fuel filter Function must be checked Check engine oil level Contact a HATZ-service center	Activate mechanical oil pressure monitor
Reduced engine performance		
Fuel supply is obstructed – Tank run dry – Fuel filter blocked – Tank venting is inadequate – Leaks at pipes unions Air cleaner blocked Incorrect valve clearance Too much oil in engine Too much oil in exciter Default in hydraulic system	Add fuel Renew fuel filter Ensure that tank is adequately vented Check threaded pipe unions Remove dirt from air cleaner Adjust valve clearance Correct the engine oil level Check exciter oil level Contact a Stanley-service center	Contact a Stanley-service center
Engine runs, machine does not move forward		
Centrifugal clutch lining worn Too much oil in exciter Default in hydraulic system	Replace linings and springs Check exciter oil level Contact a Stanley-service center	Contact a Stanley-service center

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